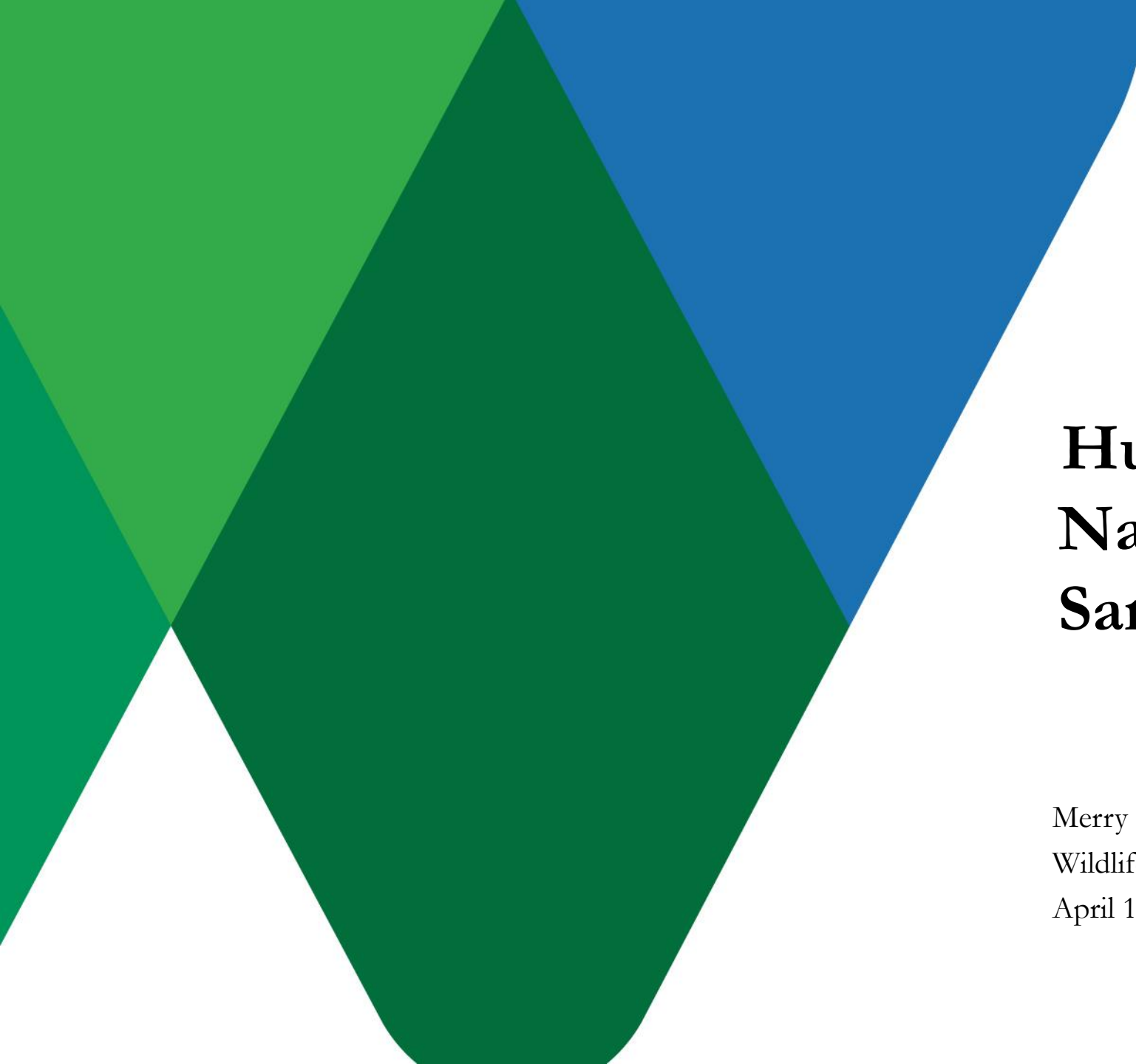




**Wildlife
Conservation
Society**



Hudson Canyon National Marine Sanctuary Nomination

Merry Camhi

Wildlife Conservation Society's New York Aquarium

April 12th 2017

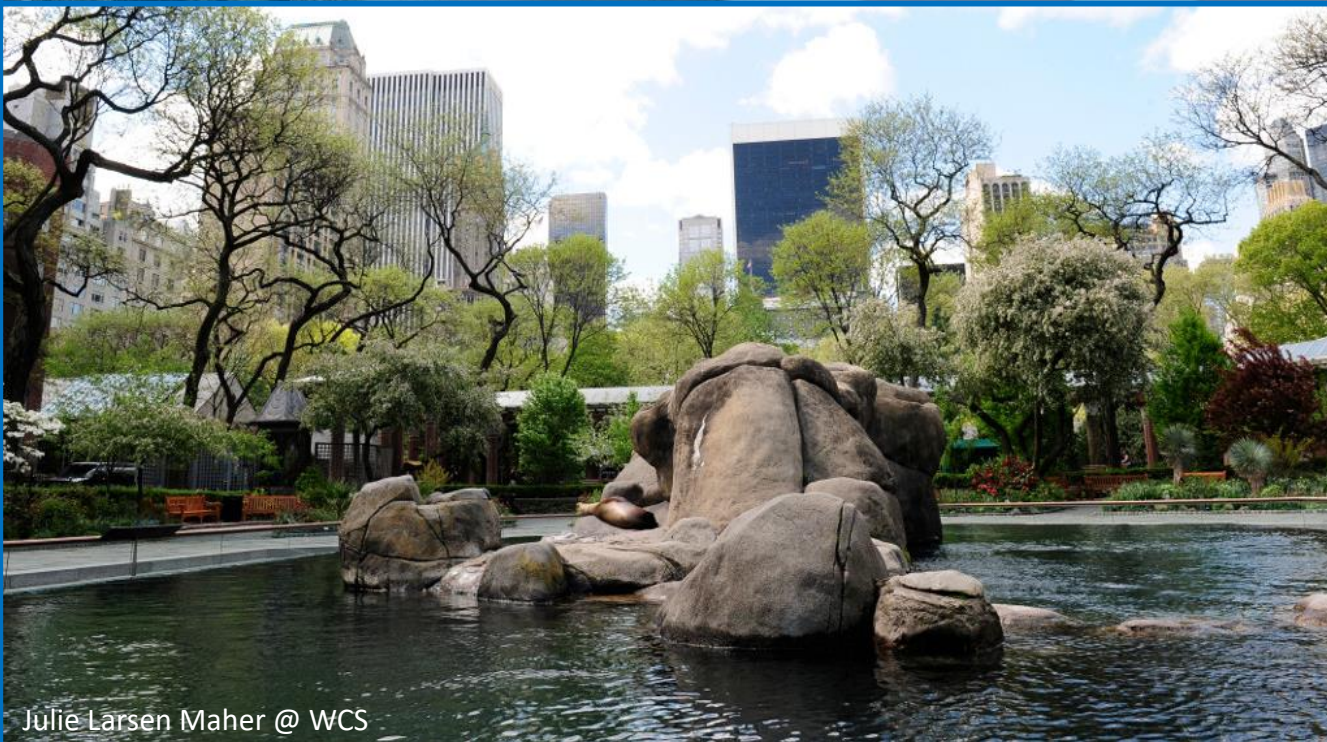
Presentation Outline

- Intro to Wildlife Conservation Society
- National Marine Sanctuaries
- WCS sanctuary nomination





Julie Larsen Maher @ WCS



Julie Larsen Maher @ WCS



Julie Larsen Maher @ WCS

15 Priority Regions



15 Priority Regions



Improving Fisheries across the
World's Most Vulnerable
Ecosystems



The New York Seascape

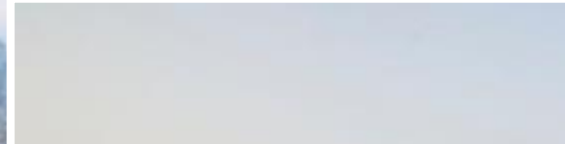


>16,000 sq miles
from Montauk, NY to
Cape May, NJ + Long Island
Sound



NY Seascape Biodiversity

- 338 fishes
- 26 sharks
- 14 skates/rays
- 5 sea turtles
- 4 seals
- 15+ cetaceans
- cold-water corals
- seabirds and invertebrates





Most urbanized marine ecosystem in the U.S

- >22 million people living along coast
- NY-NJ Harbor one of world's busiest
- 3rd largest container port in country; largest on the East coast
- \$23 billion from fisheries, tourism, healthy waters
- Increasing demand on our waters

How ensure a safe place for marine wildlife?





Julie Larsen Maher @ WCS



Julie Larsen Maher @ WCS



©Ricardo Antunes/WCS



<http://midatlanticocean.org>

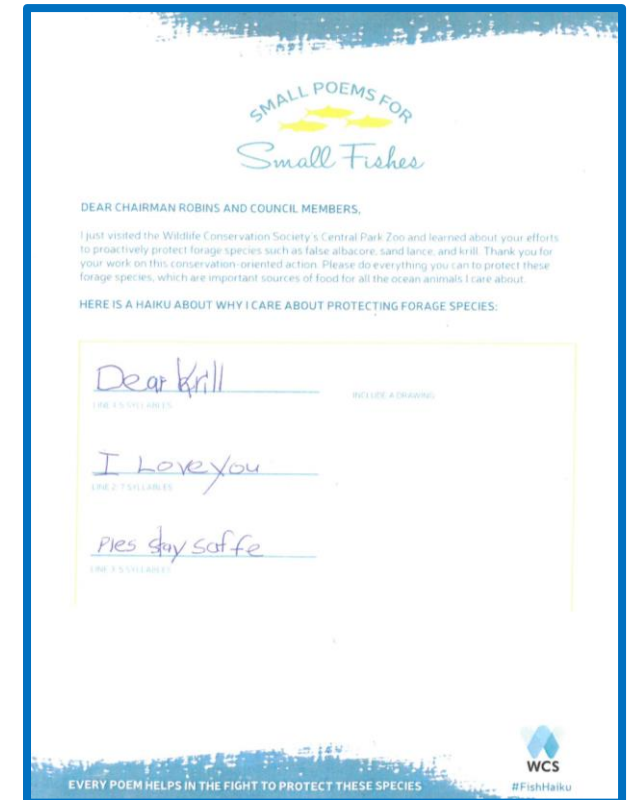
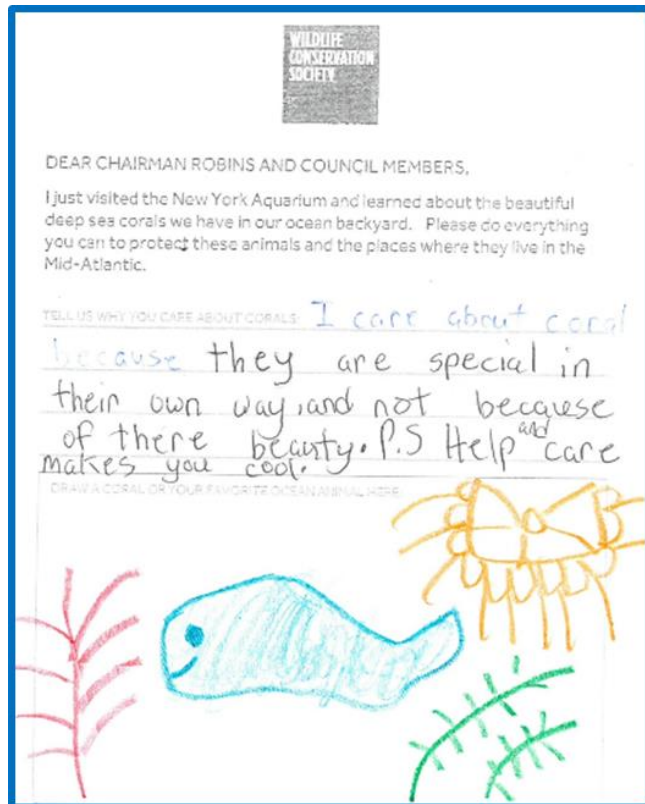


DEEP SEA CORALS AMENDMENT (2015)

- 117 drawings
- 772 petition signatures
- 75 sq ft pledge walls
- 12,011 e-activist action alerts

UNMANAGED FORAGE OMNIBUS AMENDMENT (2016)

- 437 poems and drawings
- 698 petition signatures
- 100 sq ft pledge walls with 228 drawings
- 4,062 e-activist action alerts



NATIONAL MARINE SANCTUARY SYSTEM



Scale varies in this perspective. Adapted from National Geographic Maps.





Hudson Canyon National Marine Sanctuary Nomination

November 2016

 **New York Aquarium**
A Wildlife Conservation Society Park



National Marine Sanctuary Nomination Process

1) Community Builds a Nomination

Compile info in support of nomination of special place and build broad community support

2) Community Submits Nomination to NOAA

Nomination letter (up to 25 pg) submitted by mail or email

3) NOAA's Initial Review

Initial review assesses whether nomination meets info required (criteria & considerations)

4) Taking a Closer Look

Look at nominated site to determine potential for sanctuary designation

5) Nomination Is Accepted

When nomination passes NOAA's review & meets all requirements

6) Nominated Area Added to Inventory

Site could be considered for potential designation as a NMS



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Current Status



Supporter Breakdown for Hudson Canyon NMS Nomination

US House of Representatives: 13

New York State Senate: 7

NYS Assembly Environmental Conservation Committee: 16

New York City Borough Presidents: 3

New York City Council Members: 6

Environmental Organizations: 9

Economic Development, Business and Tourism Organizations: 8

Recreational Divers: 17

WCS Online Supporters: 3,800

WCS In-Park Supporters: 4,250



Did you know that there are deep sea corals in Hudson Canyon? They come in many shapes and sizes and provide homes for many different animals. **Draw some more coral and some animals that might be hiding there.**



Tilefish dig burrows in Hudson Canyon. These burrows help them hide from predators and provide homes for other animals too! **Draw some more tilefish and other animals** (like crabs and lobsters) at home in their burrows.



Dear Dr. Kathryn Sullivan,
NOAA Administrator

I visited the Wildlife Conservation Society's _____ and learned all about the marine wildlife in Hudson Canyon. Please help protect this special place. I would be so excited for Hudson Canyon to become a National Marine Sanctuary.

Thank you,

Your Name Here

City, State

Place
Stamp
Here

The Honorable Kathryn D. Sullivan
Administrator
National Oceanic and Atmospheric
Administration
Herbert C. Hoover Building, Room 6811
14th Street & Constitution Avenue, NW
Washington, DC 20230



In 1925, ocean explorer and WCS scientist William Beebe became the first person to explore the dark depths of the Hudson Canyon and observe the animals that live there! **Draw what you'd think you'd see if you were an explorer!**



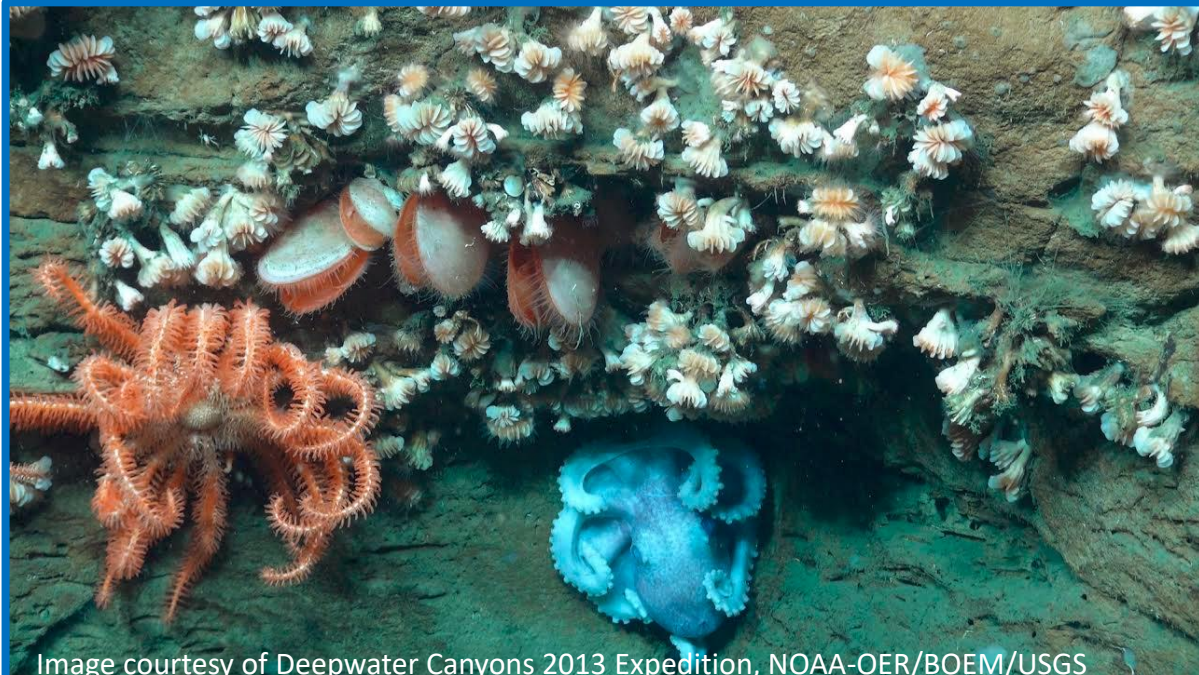


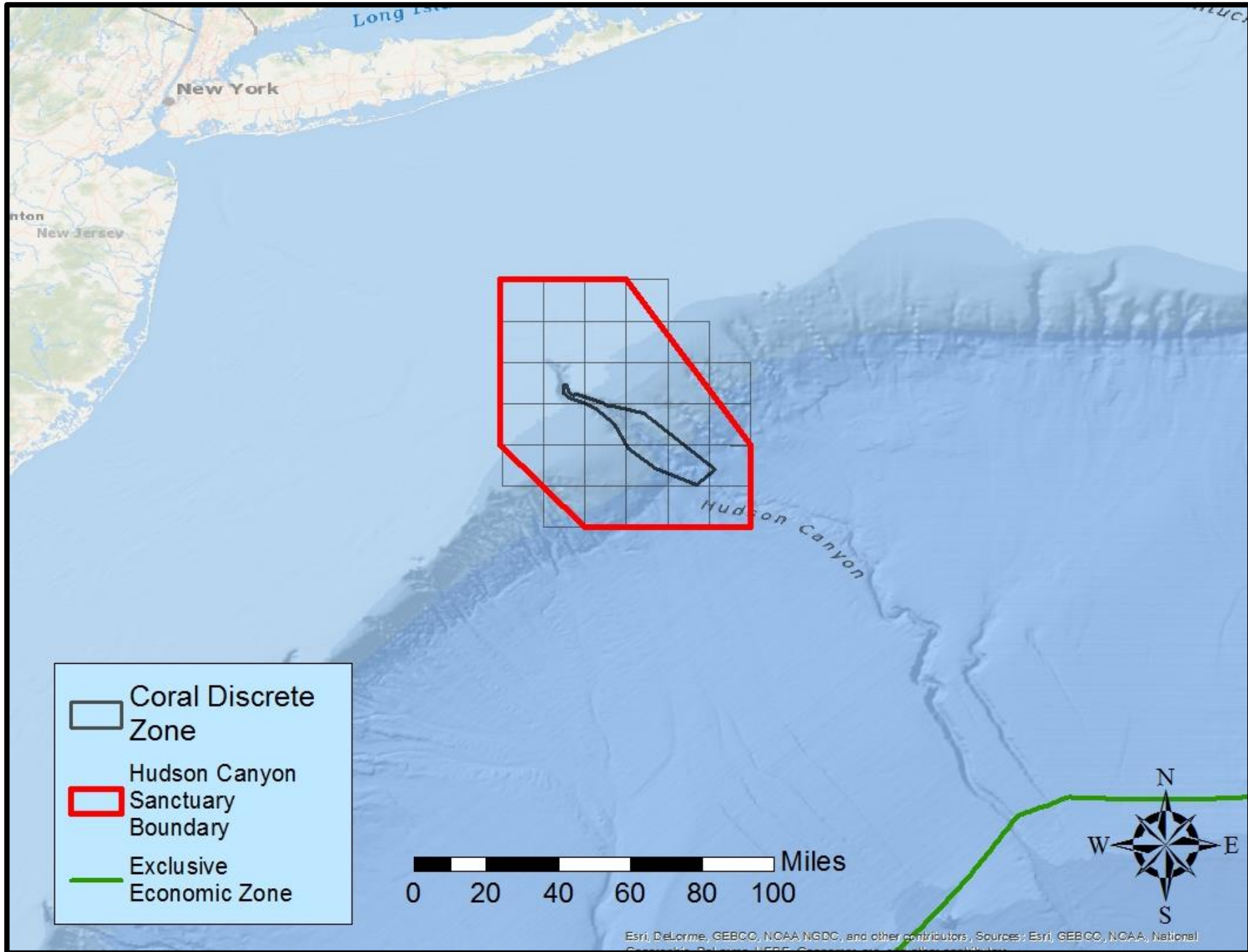
Image courtesy of Deepwater Canyons 2013 Expedition, NOAA-OER/BOEM/USGS



Hudson Canyon Sanctuary WCS Nomination Goals

- Support **conservation** of marine wildlife and habitats
- Highlight and promote the sustainable **economic uses**
- Enhance **science** and monitoring
- Expand ocean **education and awareness**





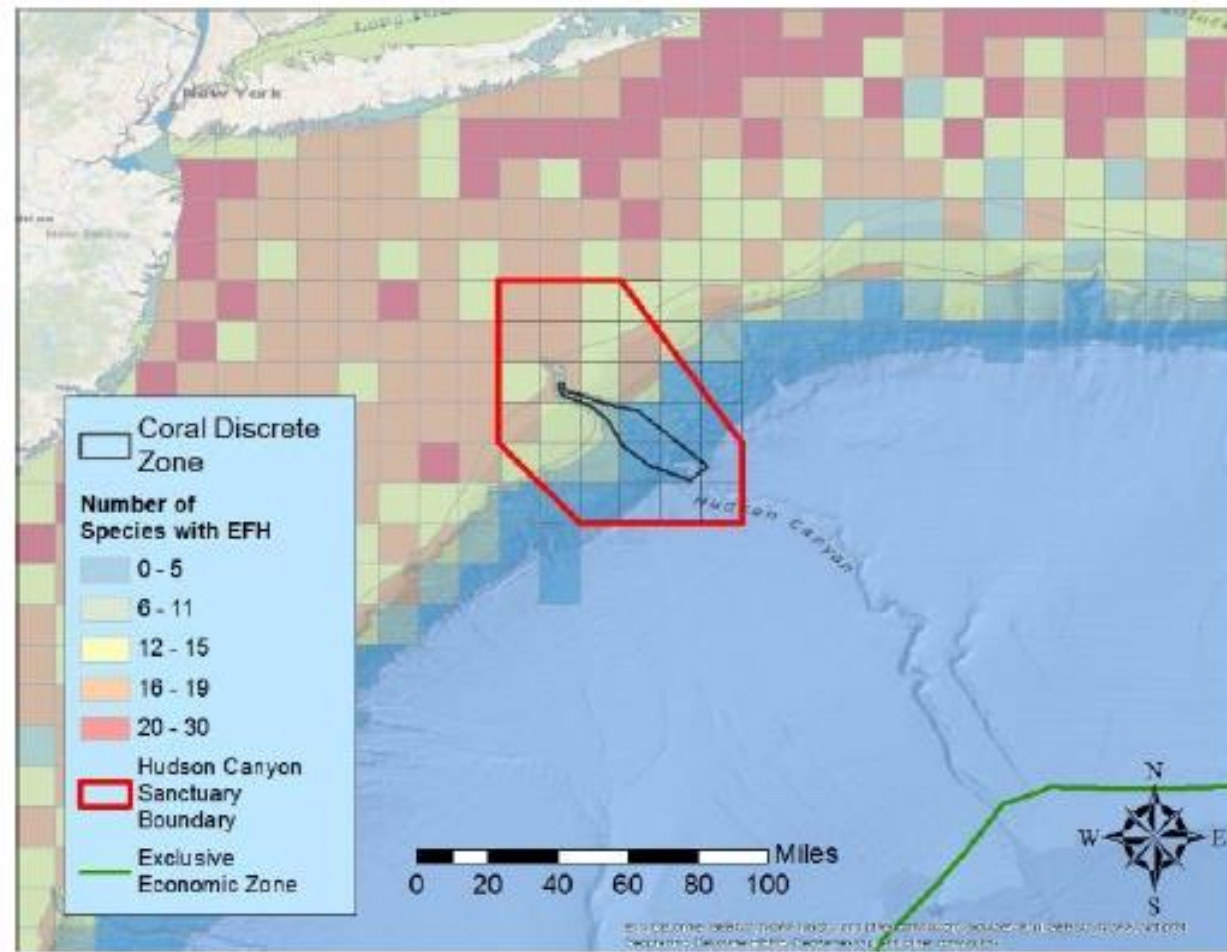
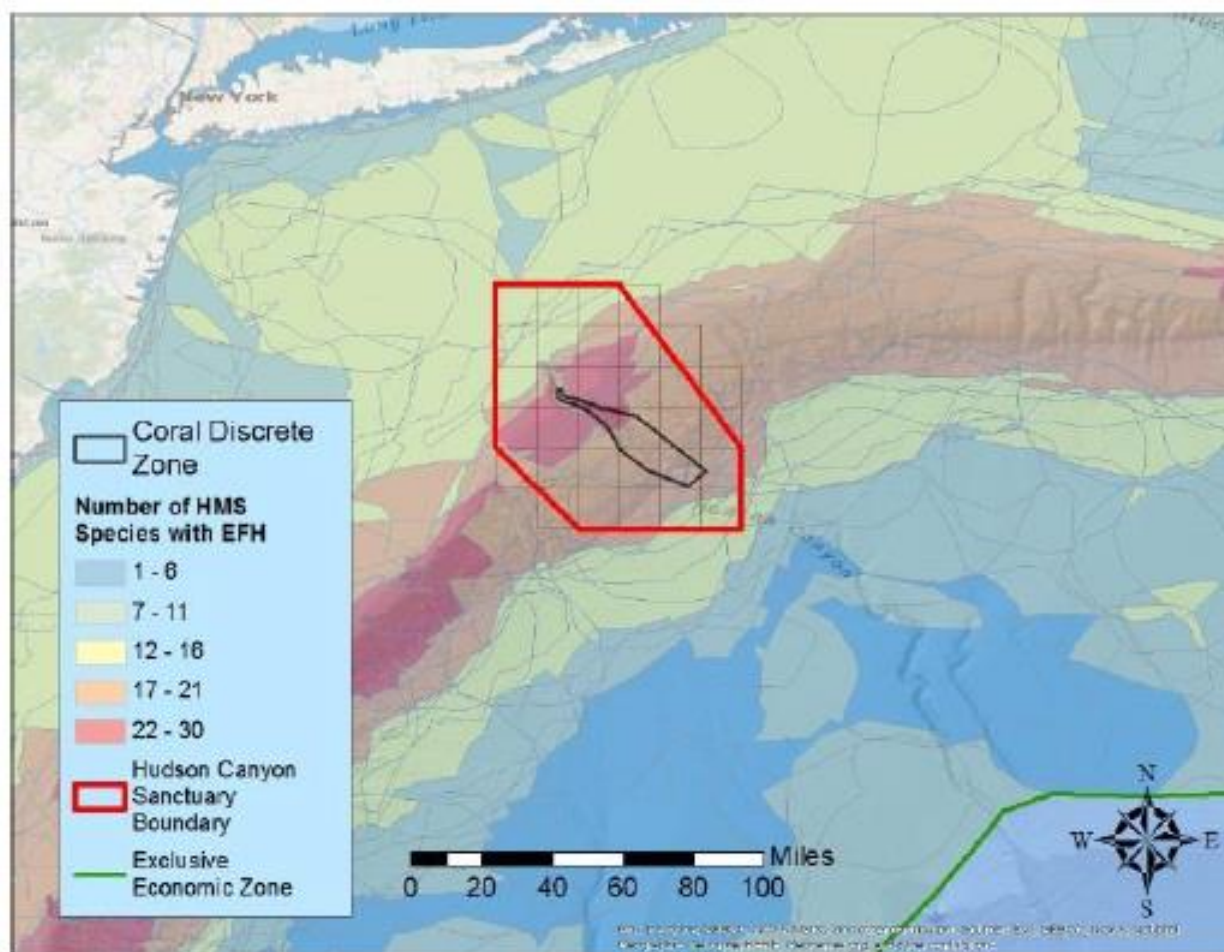


Figure 1. Number of species that have designated essential fish habitat in the proposed sanctuary boundaries including highly migratory species (left) and 39 species under federal management in the Mid-Atlantic and Northeast (right) (MARCO 2016).





Julie Larsen Maher @ WCS



Julie Larsen Maher @ WCS



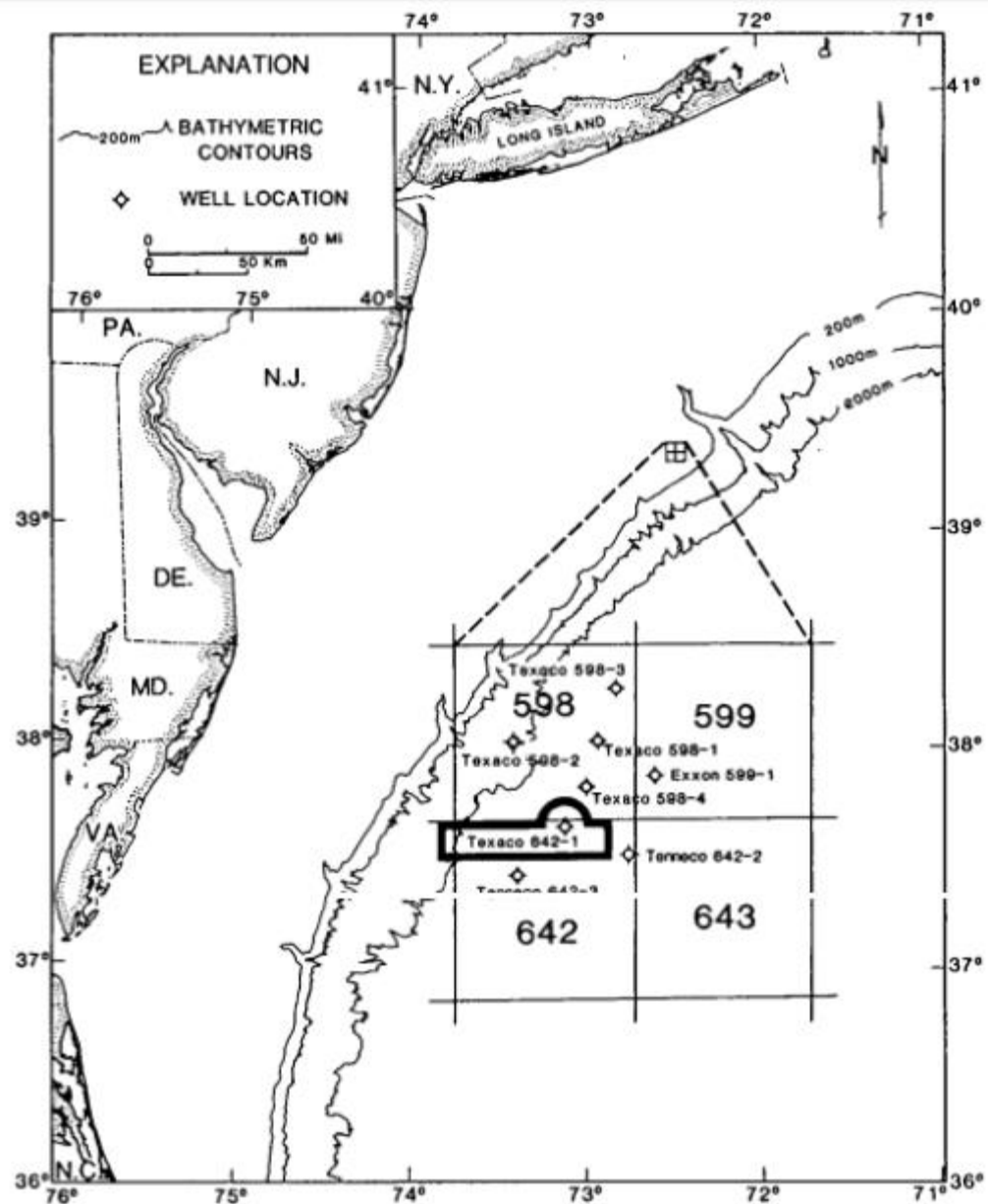
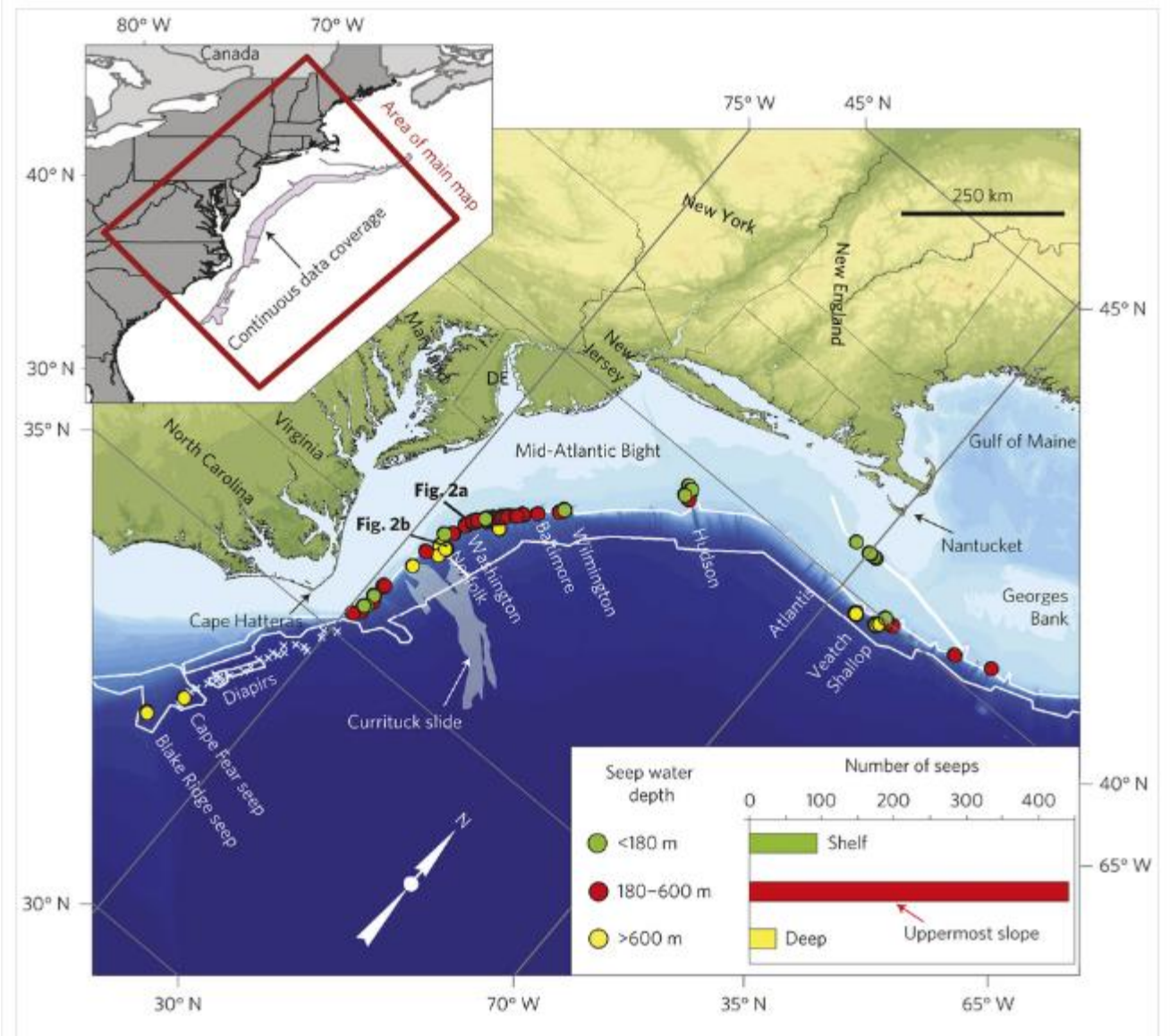


Figure 3 Historic lease drill sites from the 1970's and 1980's in the vicinity of Hudson Canyon. (Amato and Bielak 1990)



A. Skarke, C. Ruppel, M. Kodis, D. Brothers & E. Lobecker

Nature Geoscience 7, 657–661 (2014) | doi:10.1038/ngeo2232

Received 03 March 2014 | Accepted 21 July 2014 | Published online 24 August 2014



Just In...

Trump to seek offshore drilling expansion

BY TIMOTHY CAMA - 04/07/17 09:55 AM EDT

114 COMMENTS

6,535 SHARES



SHARE (6.5K)



TWEET



PLUS ONE



“....It would also begin the process of undoing Obama’s actions to indefinitely block drilling in certain areas of the Arctic and Atlantic....”





GERRY E. STUDDS
STELLWAGEN BANK
NATIONAL MARINE SANCTUARY

Home

About the Sanctuary

Visitor Information

Education

- For Teachers
- For Students
- For Naturalists
- Adult Education

Science

Management

Advisory Council

Maritime Heritage

Resource Protection

News & Events

Galleries

Library

Get Involved

Search



EDUCATION

Sanctuary-supported workshops provide information about local marine resources and research. A remotely operated vehicle (ROV) building workshop for teachers is among the programs offered in the past.



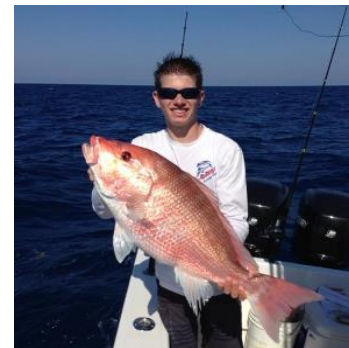
See a Spout

This short course is intended for boaters interested in whalewatching. Learn the six tips for safer boating around whales.

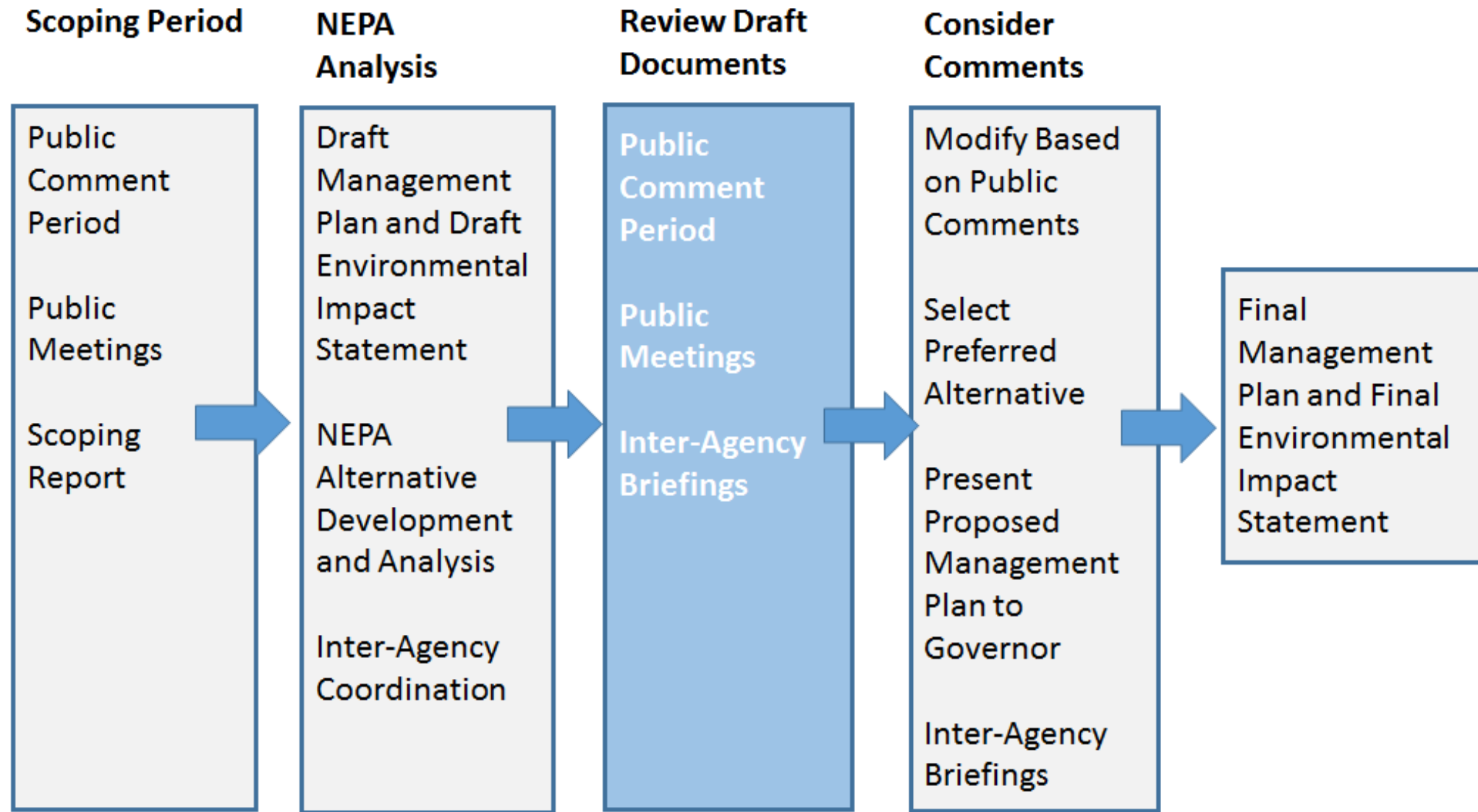


Sanctuary Socioeconomic Benefits

- All NMS →, ~\$8 billion annually generated in local coastal and ocean dependent economies, including commercial fishing, research, and recreation/tourism-related activities.
- Within 4 NMS in California (2010 and 2012), → \$69.2 million (aver annual) revenue from in commercial catch & landings
- Whale watching in MA (2000 study): 80% of New England whale watching trips in MA and almost all of these in Stellwagen NMS (→ \$31.3 million/yr)



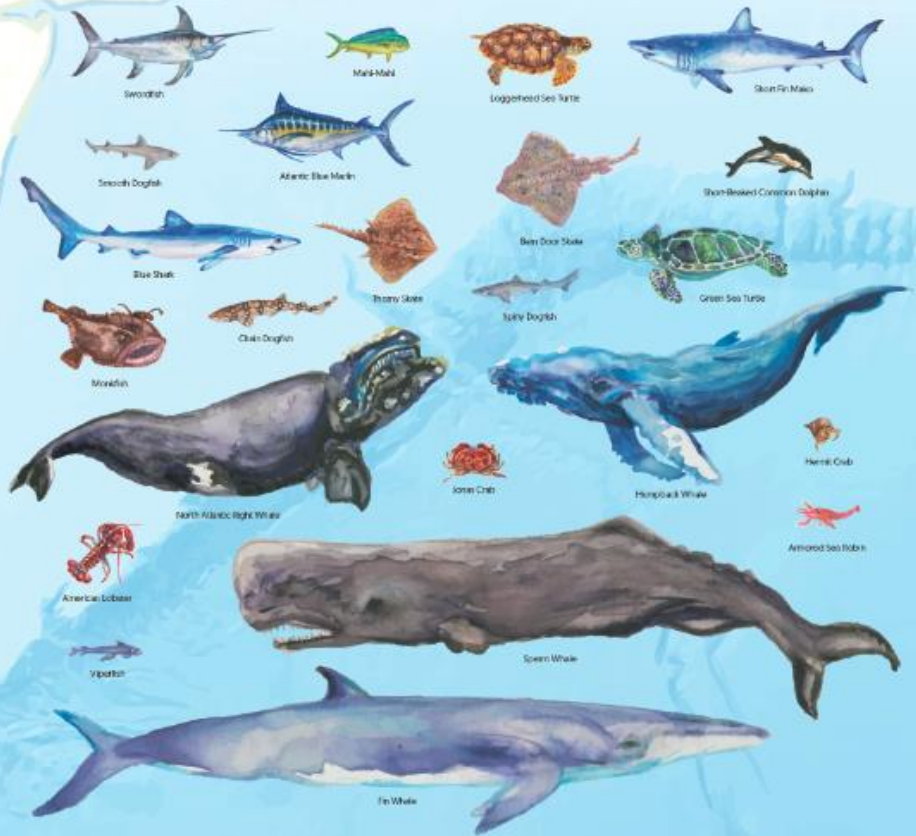
National Marine Sanctuary Designation Process (NOAA)



THE HUDSON CANYON

Greetings from the #CityBelow

The Hudson Canyon is a deep, mighty undersea canyon - to the depths of 10,500 feet - that was created thousands of years ago 100 miles off New York City's shore and fosters a vibrant community of diverse marine wildlife.



BLUEYORK™
A WCS CAMPAIGN

BASED OUT OF THE NEW YORK AQUARIUM

WCS's New York Aquarium is dedicated to conserving the New York seascape and inspiring millions of visitors to protect the local waters that are so crucial to wildlife and humans alike.

Species not to scale. Illustrated by Alina Bachmann.

Parachute drop: 250 ft high

GETTING TO KNOW THE NY SEASCAPE

How Deep is the Hudson Canyon?

You would have to stack the Coney Island Parachute Drop end-to-end **42 times** to reach the deepest parts of the Hudson Canyon

Cold water corals live in this range

650 ft
3200 ft

Depth of Hudson Canyon: **10,500 ft**

HUDSON CANYON

The Hudson Canyon lies roughly 100 miles off the coasts of New York and New Jersey. An underwater rival of the Grand Canyon in depth and scale, it's home to an incredible diversity of life. It's also vulnerable to development, which is why we at the Wildlife Conservation Society have nominated it to become a National Marine Sanctuary.

WHAT WOULD SANCTUARY STATUS MEAN?



Protection from oil, gas, and mineral exploration and extraction.



A **future** for the local fishing and tourism industries, which depend on a healthy ocean ecosystem.



A **secure home** for the hundreds of species that live there, including whales and turtles, squid and fish.



Funding for much-needed research and education—we know it's a special place, but there's so much more to learn.



Opportunities for all to connect with and enjoy this natural wonder in our backyard.

VOICE YOUR SUPPORT.

VISIT WWW.WCS.ORG/SUPPORTHUDSONCANYON.





Thank you!

We Stand for Wildlife™



A Long History of Scientific Exploration in Hudson Canyon



Sanctuaries and Monuments

National Marine Sanctuaries Act 1972

NOAA can designate and manage areas of the marine and Great Lakes environment that are nationally significant

Process and Designation:

Public scoping, public comment period, DEIS, DMP, comment period, public hearings, FEIS, FMP, agency review and consultations, approval

Management:

Managed by NOAA/ONMS, and in some cases, in partnership with state governments

Antiquities Act 1906

Presidential authority through an Presidential Proclamation/Executive Order to create national monuments on federal lands to protect significant natural, cultural or scientific features

Process and Designation:

No public process required under the Antiquities Act but designation and expansion of marine national monuments were all preceded by some level of public engagement. Development of management plans and regulations carried out after designation

Management:

Typically managed by multiple government agencies, which may include NOAA, the Department of the Interior, and other federal and state partners

